Given the following compound, answer these questions.

\[ \text{[CH}_3\text{OCCCH}_2\text{]} \]

1. Draw a reasonable Lewis structure of this compound and indicate any formal charge on non-hydrogen atoms. (5 pts)

2. What is the hybridization of all of the non-hydrogen atoms? (4 pts)

3. Draw another reasonable resonance structure of the compound (you need not do any arrow pushing!). (5 pts)

4. On this resonance structure, what is the hybridization of all non-hydrogen atoms? (4 pts)
5. Which one of the above two structures you have drawn is major? Minor? Or are they of the same energy? (Indicate this next to your drawings above) (3 pts)

6. Give two reasons why either your major structure is major, your minor structure is minor, why your structures are of equal energy, or a combination of the above. Be clear! (4 pts)